

Ted Wynne Engineering/Contractor, Inc.

417 WELSHWOOD DRIVE • SUITE 114 • NASHVILLE, TN 37211 PHONE: 615-331-7660 • FAX: 615-333-0764

December 20, 1999

Mr. Bill Stalker Tennessee Valley Authority P.O. Box 292409, Bldg 1, Suite 300 565 Marriott Drive Nashville, Tennessee 37229-2409

Re:

Monterey Middle School hole test

Monterey, Tennessee

This office performed a thermal conductivity test on one (1) 200 feet deep, 6 inch diameter vertical bore, backfilled with drilled tailings, November 30, 1999. The following data was derived from test data:

Thermal Conductivity
Ground Temperature

2.1 BTU/HR-F

Ground Temperature 59.0 F

We feel that based on our observation of the terrain, the above is representative of the area where a field of Vertical Heat Exchangers will be located for this project.

The driller's logs are enclosed herewith. According to the Driller's Log submitted to our office the bore hole penetrated more that one water source, thus our office recommends that any future holes drilled should be Grouted to prevent transfer of water from one elevation to another.

Please let us know if any additional information is needed.

Sincerely,

TED WYNNE ENGINEERING CONTRACTORS, INC.

Ted Wynne, P.E.

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WORK ORDER

Mid-South Goo & Water Resources, Inc.

P.O. Box 297 • Labanon, TN 37088-0297 Phone: (615) 444-0423 • Fax: (615) 444-0427

01014

Date 11-29-99

Job Montercy	School	Phone
Address		County
Requested On: 11-17-99 By Bill STAlker		
Start Drilling 11-29-99 Complete Drilling 11-29-99		
Total Depth 1.200 Depth to Rock 20'		
		Bit Type/Size 6/4. Hammer
		7-79 Quality Water
DEPTH		FORMATION
0-5	DIT	·
5.25		and Red + DIFT
25-50		Sand Stone
50-25	11.	11 11
75 - 100	74-79	Opening with water
100 - 125	No RoTu	•
125 - 150	11 11	
150 - 125	11 11	<u> </u>
175 - 200	11 11	
200TD	11 /1	
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